Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

HW#34H: Two Column Proofs

Honors Geometry

Due Date: Friday, November 14th, 2014

**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

|  |  |
| --- | --- |
| 1) Use the Addition Property  Given:  Prove: | 2) Use the Subtraction Property  Given:  Prove:  V  T  S  R |
| 3) Use the Transitive Property  **GIVEN:** *m**A = m**B*  *m**C = m**B*  **PROVE:** *A* *C* | 4) Use Vertical Angles  Given:  Prove:  K  L  M  N  2  1 |

**REVIEW!**

|  |  |  |
| --- | --- | --- |
| 5) Is the following an example of inductive or deductive reasoning? Determine the next figure. | | 6) Is the following an example of inductive or deductive reasoning? Explain.  ***All athletes work out in the gym.* *Barry Bonds is an athlete.* *Therefore, Barry Bonds works out in the gym.*** |
| 7) | 8) | |
| 9) | 10) Solve 5(*x* - 4)  =  3*x* + 2. Write a reason for each step. | |
| 11) Simplify | 12) What is the area of triangle below? | |
| 13) The diameter of a circle is 20 cm. What is the circumference of that circle? Leave the answers in terms of π. | 14) Simplify (-8c·3d)2 | |